

Carbon Dioxide Management on the International Space Station

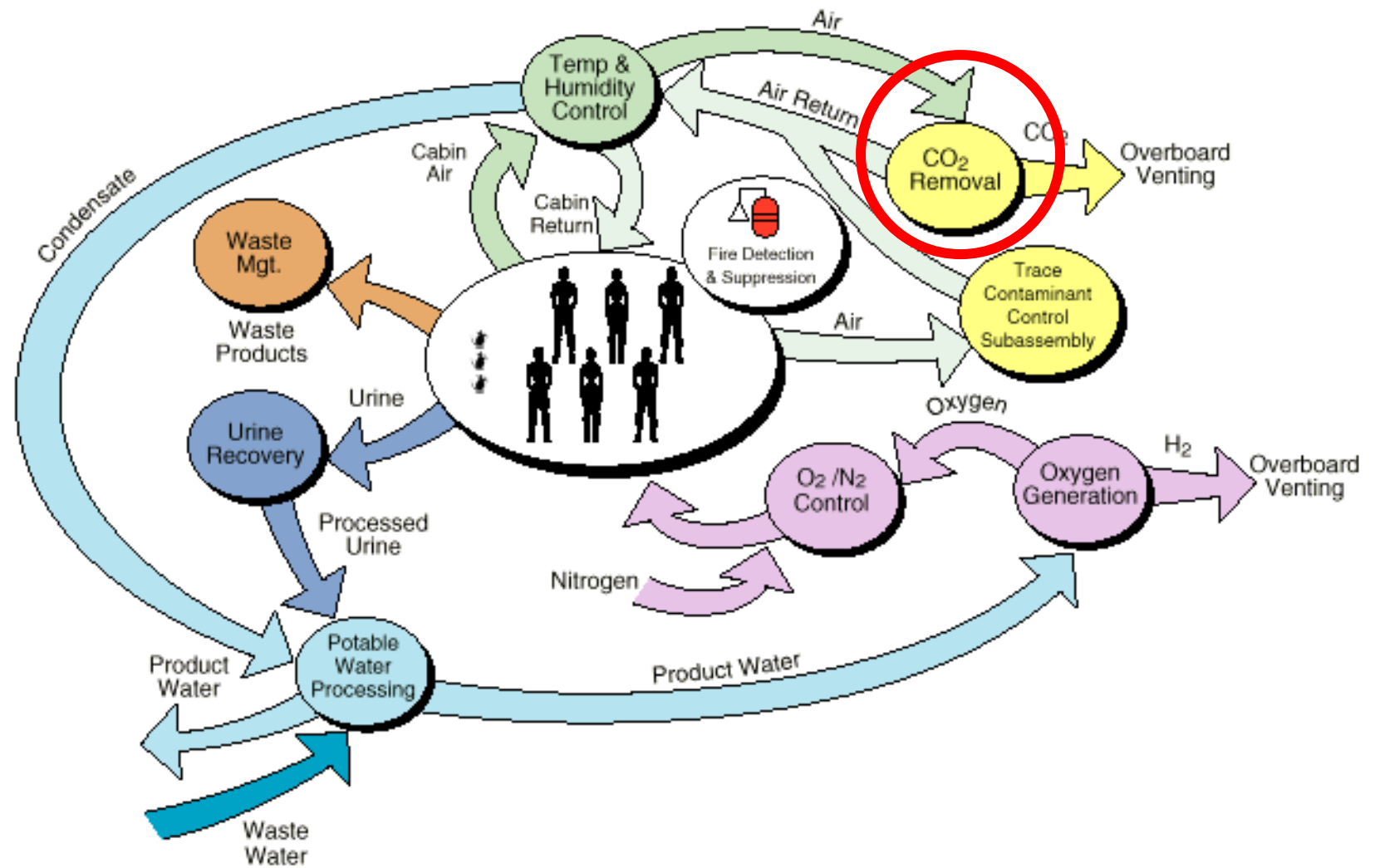


Katie Burlingame

ISS ETHOS Flight Controller

Cimarron





Comparative Carbon Dioxide (CO₂) Levels

- Earth Atmosphere
 - CO₂: 0.04%
- ISS Atmosphere
 - CO₂: 0.4%



Impacts to High CO₂ Levels

- Headaches
- Lethargy
- Mental slowness
- Emotional irritation
- Sleep disruption
- Dizziness
- Unconsciousness

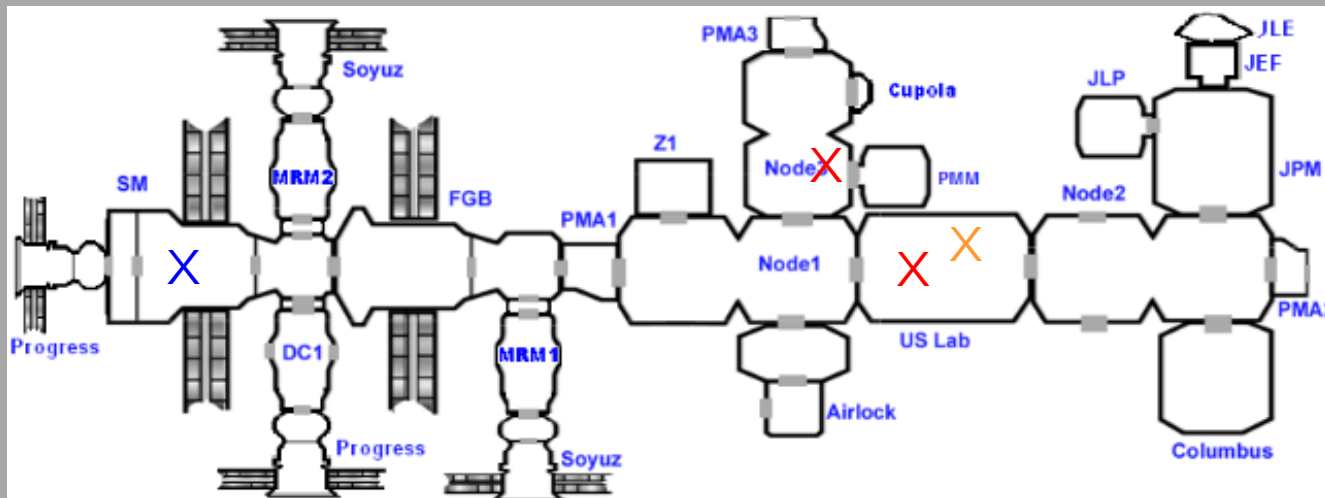


ISS CO₂ Removal



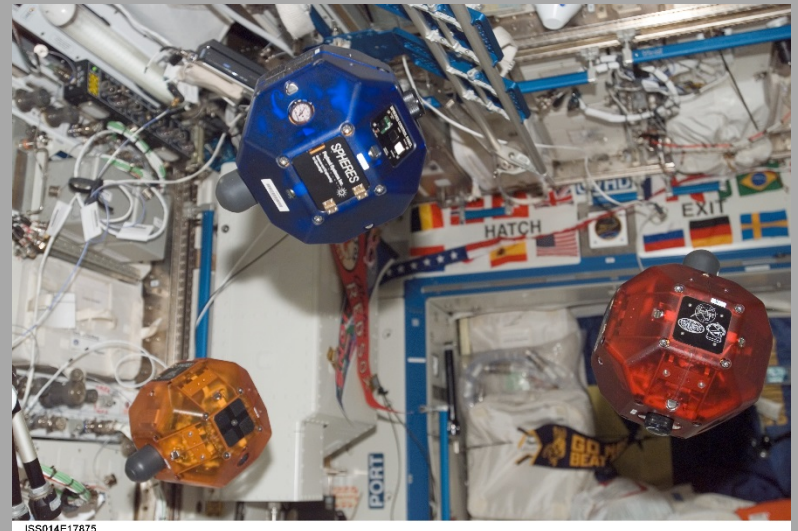
Complicating Factors

- Station airflow
- Activities that produce CO₂
- Crew member variation
- Medical privacy
- System failures



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